#### 15. DATA SHEETS

#### SUMMARY OF HYDRAULIC BRAKE HOSE TESTING RESULTS

GRP NO.:; NOM. HOSE ID:"; VEH MFR:	; PART NO.:
HOSE ASSY. MFR.:	PART NO.:
HOSE STOCK MFR.:	
TYPE OF HOSE ASSYS.:Veh. Specific*; * These types of assemblies are NOT SUBJE SUMMARY: (INDICATE P - PASS, F - FAIL, N/A -	ECT to Label Inspection PASS/FAIL criteria.

HOSE NUMBER Test TEST 2 4 7 9 1 3 5 6 8 10 11 12 13 14 15 21 No. Spare LABEL INSPECTION 2 CONSTRIC. TEST EXPANSION 3 TEST BURST 4 **TEST** WHIP 5 TEST TENSILE 6 7 COLD BOX TEST 8 SALTSPRAY TEST END FITTING 9 CORROSION OZONE 9 TEST 10 WATER ABSORP. BRK.FLUID 11 COMPAT. 12 HIGH TEMP. IMPULSE DYNAMIC OZONE 13 2 3 4 5 6 8 9 10 11 12 13 15 16 17 18 19 Spare

RECORDED BY: _	,	DATE:
APPROVED BY:		

#### DATA SHEET H-1A

#### **HYDRAULIC BRAKE HOSE LABELING INSPECTION - HOSE**

GRO	OUP NO.:		TEST D	ATE	::	<del></del>	
TYP	E OF HOSE AS	SYS.:Veh. Specific;Af	termarket				
MAF	RKINGS ON HO	SE: DOT LINE- OTHER LINE-					
TOF	RQUE STRIPES *Required o	* (2) ON HOSE:Yes;h n AFTERMARKET ASSYS only	No	PA	ss	FAIL	N/A
	DATE CODE (	ON HOSES					
	HOSE NO.		HOSE NO.		DATE C	ODE	
	1		11				
	2		12				
	3		13				
	4		14				
	5		15				
	6						
	7						
	8						
	9		21				
	10		Spare				
REC APF	CORDED BY:	;	DATE: _				

#### DATA SHEET H-1B

### HYDRAULIC BRAKE HOSE LABELING INSPECTION - ASSEMBLY

GROUP NO.:	TEST DATE:		
TYPE HOSE ASSYS.:Veh. Specific;Aftermark	et		
MARKINGS ON BAND*:	PASS	FAIL	N/A
(Metal Band unless otherwise noted) If band is NOT present, check Data Sheet H-1C Option Selection for PASS/FAIL judgement for AFTERMARKET ASSEMBLIES			
* If marking on any hose assembly band is different than by hose number in the space below.	recorded above, copy	the marking	and identify
REMARKS:			
RECORDED BY:;	DATE:	<del></del>	
APPROVED BY:			

TEST DATE: \_\_\_\_\_

#### 15. DATA SHEETS....Continued

GROUP NO.: \_\_\_\_\_

#### DATA SHEET H-1C

### HYDRAULIC BRAKE HOSE LABELING INSPECTION - END FITTINGS

TYPE OF HOSE ASSYS.:Vehicle Specific;Aftermarket TYPE OF END FITTING:Permanent;Crimp/Swag;Sleeve/Ferrule MARKINGS ON END FITTINGS*: (Each hose assy end must be marked with an "A" or "B" by lab)  * If Band is NOT present, one fitting on Aftermarket Assys must have manufacturer's identification						
HOSE NO.	"A" END		"B" END		PASS, FAIL, N/A	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
21						
SPARE						
RECORDI	ED BY:	;	DATE	≣:		

#### DATA SHEET H-2

### **HYDRAULIC BRAKE HOSE CONSTRICTION TEST**

GROUP NO.: _	; TES1	Г DATE:	; HOSE NOMINAL I.D.:'		
AMB. TEMP.: _ GAGE	°F; PLUG S	IZE USED:	" PLUG GAGE	EXT. PLUG GAGE BALL	
Each end of the		y must be marked wi		e laboratory. gage plug as shown above.	
HOSE NO.	END	PASS	FAIL <sup>*</sup>	MAX. DRILL SIZE	
1	A B				
2	A B				
3	A B				
4	A B				
5	A B				
6	A B				
7	A B				
8	A B				
9	A B				
10	A B				
11	A B				
12	A B				
13	A B				
14	A B				
15	A B				
16	A B				
	A B				
	A B				
21	A B				
SPARE	A B				
*Approx	ximate location of	of obstructionin.	from A B		
RECORDED B	Y:	;	DATE:		
ALLINOVEDE	• •		<del></del>		

RECORDED BY: \_\_\_\_\_;
APPROVED BY: \_\_\_\_\_;

#### DATA SHEET H-3

#### **HYDRAULIC BRAKE HOSE EXPANSION TEST**

GROUP NO.:; HOSE TYPE:			; TEST DATE	<u> </u>	
HOSE NOMINAL I.D.:"; EXPANSION	I AMBI	ENT TEMPE	RATURE:		°F
DO NOT MOVE THE HOSE BETWEEN THE TH	IREE (	3) EXPANSI	ONS		
Expansion @ 1000 psig: ( cc/ft allowed	)	HOSE #1	HOSE #2	HOSE #3	HOSE #4
Hose Free Length (FL), INCHES	FL				
Hose Free Length (FL), FEET	FL				
Expansions @ 1000 psig	#1				
	#2				
	#3				
TOTAL OF THREE EXPANSIONS	Т				
AVERAGE = TOTAL/3	Α				
EXPANSION (ACTUAL/FL (feet)	E				
Expansion @ 1500 psig: ( cc/ft allowed	)	HOSE #1	HOSE #2	HOSE #3	HOSE #4
Expansions @ 1500 psig	#1				
	#2				
	#3				
TOTAL OF THREE EXPANSIONS	Т				
AVERAGE = TOTAL/3	Α				
EXPANSION (ACTUAL/FL (feet)	E				
Expansion @ 2900 psig: ( cc/ft allowed	)	HOSE #1	HOSE #2	HOSE #3	HOSE #4
Expansions @ 2900 psig	#1				
	#2				
	#3				
TOTAL OF THREE EXPANSIONS	Т				
AVERAGE = TOTAL/3	Α				
EXPANSION (ACTUAL/FL (feet)	E				
PASS					
FAIL					

DATE: \_

#### **DATA SHEET H-4**

#### HYDRAULIC BRAKE HOSE BURST STRENGTH TEST

GROUP NO.:	; HOSE TYPE:	; TEST DATE:	
AMBIENT TEMPERA	TURE:	°F	

HOSE NUMBER	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL
1			
2			
3			
4			
16			
19			

REMARKS:

I.D.	MINIMUM ALLOWABLE BURST STRENGTH
larger than 1/8 inch or 3 mm	5,000 psi
1/8 inch, 3 mm, or smaller	7,000 psi

RECORDED BY:	DATE:	
APPROVED BY:		

#### DATA SHEET H-5 HYDRAULIC BRAKE HOSE WHIP TEST

GROUP NO.:; AMBIENT TEMPERATURE: °F						
TIME				DATE		
START OF TE	ST					
END OF TEST	-					
TOTAL ELAPS	SED TEST TIME (hours)	) =				
	gth of each specimen wang in a straight position.	s meas	ured to within a	tolerance of 0.0	115" between the	end fittings
or bubbles. hours. See	sure of 220 to 235 psig wa The machine speed was TP Table 2 for "Slack" re dition of the hoses after 3	780 to equireme	800 rpm, and to ents.	tal whip running	g time was a minir	num of 40
based upon	the condition at the 35 h	our insp		<u>'</u>		1
Inspect condition of the hoses after 35 hours and 40 hours of whip test running time. PASS/FAIL shall be based upon the condition at the 35 hour inspection. NOTE: Measurements in thousands of an inch.			HOSE #5	HOSE #6	HOSE #7	HOSE #8
Hose Free Ler	ıgth	FL				
Slack Setting		SS				
Machine Setup	Length (FL - SS)	MSL				
Line Pressure	(220 to 235 psig)	LP				
Whip Test Run (Minimum = 40	nning Time, hours hours)	ET				
HOSE CONDI	TION AT 35 HOURS AN	D AT 40	HOURS			
HOSE NO. AT 35 HOURS		AT 40 HOURS		DETERMINED @ 35 HRS		
					PASS	FAIL
5						
6						
7						
8						
RECORDEI APPROVEI		:	; DA	TE:		

#### **DATA SHEET H-6**

#### **HYDRAULIC BRAKE HOSE TENSILE TEST**

GROUP NO	;	; AMBIENT TEMP.:	:"⊦
The hose assen	nblies were mounted in the	tensile machine so that the	hose and end fittings had

The hose assemblies were mounted in the tensile machine so that the hose and end fittings had a straight centerline corresponding to the direction of the machine pull.

The hose assembly was pulled at a rate of 1 inch/minute until failing as follows:

- A. Hose pulled out of the end fitting
- B. Hose ruptured

TABLE H6-1 - Slow Pull Test (1" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (lbs)	PASS	FAIL
9A			325		
10A			325		
11A			325		
12A			325		

TABLE H6-1 - Fast Pull Test (2" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (Ibs)	PASS	FAIL
9B			370		
10B			370		
11B			370		
12B			370		

REMARKS:		
RECORDED BY:	_ ;	DATE:
APPROVED BY:		

#### DATA SHEET H-7

#### HYDRAULIC BRAKE HOSE LOW TEMPERATURE RESISTANCE TEST

GROUP NO	D.:; HC	SE	DIAMETER	≺:	II	nches		
The hose as 54°F for 70	ssembly was conditio hours.	ned	in the cold	box	in a straight posi	tion or	natural position at -4	0°F to -
After the co wood mand	nditioning period and rel of the diameter no	whi oted	le still at thi in the "REN	is ter MAR	mperature, the ho	se ass	embly was bent arou	ınd a
All cracks a	nd breaks are noted l	belo	W.					
HOSE #13	B DATE	ті	ME	- 1	BOX TEMPERATURE	E (°F)	EVIDENCE OF CR OR BREAKS	ACKS
IN BOX								
OUT BOX								
TOTAL EX	(POSURE TIME =							
TEST RESI	JLTS:					<b>-</b> 1		
			PASS		FAIL			
Wood Mand	drel diameter used = _		inche	es				
	HOSE NOMINAL I.D	).		TES	ST CYLINDER D	AMET	ER(+ 0.03, - 0)	
	LESS THAN 1/8"			2.50	)"			
	1/8"			3.00"				
	3/16" AND 1/4"			3.50"				
	GREATER THAN 1/4	4"		4.00	)"			
REMARKS: External Ins	spection -							
RECORDE	D BY:		;		DATE:			
APPROVE	O BY:							

#### **DATA SHEET H-8**

### HYDRAULIC BRAKE HOSE END FITTING CORROSION TEST

GROUP NO.:									
The hose assembly was subjected to a Salt Spray test for 24 hours in accordance with the testing method of Salt Spray (Fog) Testing ASTM B117-03.									
The temperature i	n the salt chambe	r and the air supp	oly (psig) were conti	nuously re	corded.				
HOSE #14	DATE	TIME	SALT SOLUTION	N PROP.	EVIDENCE OF RUST OR CORROSION				
			Sp.Gr.@95±2°F	Ph					
IN Cabinet									
OUT Cabinet									
TEST RESULTS:									
		PASS	FAIL						
REMARKS: (Note	all interruptions ir	n test, cause, and	length of time)						
RECORDED BY:		;	DATE:						
APPROVED BY:									

#### **DATA SHEET H-9**

### HYDRAULIC BRAKE HOSE OZONE RESISTANCE TEST

GROUP NO.:; AMBIE	ENT TEM	PERAT	JRE:	_ °F	
HOSE NO.: <u>15</u> ; HOS	SE NOMIN	NAL O.D	.:	inches	
CYLINDER DIAMETER = 8 x HOSE	NOMINAI	_ O.D. =	inche	s	
		TIME			DATE
START OF TEST					
END OF TEST					
TOTAL EXPOSURE TIME (hours) =					
The brake hose was bound around a temperature for 24 hours.	cylinder v	with a di	ameter of	_ inche	s and conditioned at room
The brake hose and cylinder were the by volume for 70 hours at a temperate			ozone concent	tration o	of 100 parts per 100 million
Examination of the hose under 7-pow	ver magni	fication	yielded the follo	owing re	esults -
TEST RESULTS:	<u> </u>			ត	
	PASS		FAIL		
REMARKS:				1	
RECORDED BY:	;		DATE:		

#### DATA SHEET H-10A

### HYDRAULIC BRAKE HOSE WATER ABSORPTION - BURST TEST

GROUP NO.:;			AMBIEN	T TEMPERATUR	E:°F	<del>-</del>
HOSE FRE	E LENGTH:i	nches; HOS	E NOMINAL	. I.D.:	_ inches	
			TIME		DATE	
START OF	IMMERSION TI	ME				
END OF IN	MERSION TIME					
TOTAL IM	MERSION TIME	(hours) =				
	as prepared and imn n the water, the Burs		st was cond			
	HOSE NUMBER	ATTAINE		PASS	FAIL	
	16					
·						=
lorge	I.D. er than 1/8 inch or 3 r	nm	MINIMUM		URST STRENGTH	1
	nch, 3 mm, or smalle			5,000 psi 7,000 psi		
REMARKS:						
RECORDE	O BY:	;	Γ	DATE:		
APPROVED	) BY:					

#### DATA SHEET H-10B

#### **HYDRAULIC BRAKE HOSE WATER ABSORPTION - WHIP TEST**

GRO	UP NO	.:;	; AMBIENT TEMPERATURE:°F						
HOSI	E FRE	E LENGTH:	inches; HOS	E NOMINAL I	.D.:		inches		
				TIME			DATE		
STAF	RT OF	IMMERSION	TIME						
END	OF IN	MERSION TI	ME						
TOTA	AL IMI	MERSION TIN	/IE (hours) =						
minut		r removal from th	immersed in disti ne water, the Whi						
Ambie	ent Ten	nperature =	°F.	TIME			DATE		
STAR	T OF W	/HIP TEST							
END C	OF WH	P TEST							
ТОТА	L WHIF	P TEST TIME (ho	ours) =						
				ı					
	NOTE	: Measurement	s in thousands	of an inch.		HOSE	#17		
	Hose	Free Length			FL				
	Slack	Setting			SS				
	Mach	ine Setup Length	ı (FL - SS)		MSL				
	Line F	Pressure (220 to	235 psig)		LP				
	Whip	Test Running Tir	me, hours (Min. =	40 hrs)	ET				
HOSE C	CONDI	TION AT 35 HOU	JRS AND AT 40	HOURS					
HOSE NO.		AT 35 HOURS		AT 40 HOUR	s		DETERMINED @ 35 HR		HRS
							PASS	FAIL	
17									
	ORDEI ROVED		,	D <i>A</i>	ATE:				

#### **DATA SHEET H-10C**

#### **HYDRAULIC BRAKE HOSE WATER ABSORPTION - TENSILE TEST**

GROUP NO.:; AMBIENT TEMPERATURE:					
HOSE FREE LENGTH: inches	inches				
	TIME	DATE			
START OF IMMERSION TIME					
END OF IMMERSION TIME					
TOTAL IMMERSION TIME (hours) =					

The hose was prepared and immersed in distilled water at room temperature for 70 hours. Within 30 minutes after removal from the water, the Tensile Strength Test was started in accordance with TP Paragraph 12.A.6.

The hose assemblies were mounted in the tensile machine so that the hose and end fittings had a straight centerline corresponding to the direction of the machine pull.

The hose assembly was pulled failure as follows:

- Hose pulled out of the end fitting A.
- Hose ruptured B.

TABLE H6-1 - Slow Pull Test (1" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (lbs)	PASS	FAIL
18			325		

TABLE H6-1 - Fast Pull Test (2" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (lbs)	PASS	FAIL
18			370		

RECORDED BY:	· ,	DATE:
APPROVED BY:		

# **DATA SHEET H-11**

# HYDRAULIC BRAKE HOSE BRAKE FLUID COMPATIBILITY TEST

GROUP NO.:		HOSE	NUMBER:			
		TIME		DAT	E	
START OF TEST TIME						
END OF TEST TIME						
TOTAL IMMERSION TI	ME (hours) =					
The hose was attached an oven at 195 to 200°F minutes.						
Cool Period:	Start Time		End Tim	e		
	TOTAL Cod	ol Time -				
The Constriction Test w					oranh 12	A 2
HOSE NUMBER	END		PASS	- r araş	FAIL	
	A					
19						
	В					
The Burst Strength Tes	t was performe	d in accor	dance with the	TP Pa	ragraph	12.A.4.
I.D.			WABLE BURST S			
larger than 1/8 inch or 3 mm			5,000 psi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1/8 inch, 3 mm, or smaller	ACTUAL PR	DESCUE	,000 psi			1
HOSE NUMBI			PASS	F.	AIL	
19						
REMARKS:						
RECORDED BY:	;	[	DATE:			
APPROVED BY:						

# **DATA SHEET H-12**

# HYDRAULIC BRAKE HOSE HIGH TEMPERATURE IMPULSE TEST

GROUP NO.:	;	AMBIEN <sup>-</sup>	T TEMPERA	ATURE:	°F	
HOSE NO.: _	; HO	SE NOM	INAL O.D.: _	i	nches	
other e	nd of hose assemend of the hose assembly were fill	ssembly v	was plugged	. The pressu	re cycling mach	
positio pressu for 1 m	ake hose assemble. With the oven re inside the hose inute, then the plant for 1 minute) for	temperat e was cyc ressure is	ture at 295 d cled (from ze s decreased	legrees F (14 ero psi to 160	6 degrees Celsi 0 psi and held c	us) the onstant
			TIME		DATE	
START OF 1	50 CYCLES					
END OF 150	CYCLES					
TOTAL CYCI	_E TIME (hours)	=				
machir	ake hose was rerne, and allowed to	o cool at r	room temper	ature for 45 r	ninutes.	, ,
	HOSE NUMBER		PRESSURE NED, psig	PASS	FAIL	
REMARKS:						
RECORDED BY	<b>′</b> :	;	DATE	Ξ:		
APPROVED BY	·		·			

# **DATA SHEET H-13**

# HYDRAULIC BRAKE HOSE DYNAMIC OZONE TEST

GROUP NO.:; AM	BIEN	T TEMP	ERATURE: _		_ °F
HOSE NO.:; HOSE	NOM	INAL O.	D.:	inche	S
The brake hose was conditioned a the test fixture (Par. 12.A.13, Figure		n tempe	rature for 24	hours, the	en cut and mounted on
The test fixture with the cut portion concentration of 100 parts per 100. The movable pin of the test fixture exposure.	) millio	on by vo	lume for 48 h	ours at a	temperature of 104°F.
		TIME		DAT	ΓE
START OF EXPOSURE					
END OF EXPOSURE					
TOTAL EXPOSURE TIME (hours	s) =				
Examination of the hose without m	nagnif	ication y	rielded the foll	lowing re	sults -
	PAS	S	FAIL		
REMARKS:					
RECORDED BY:	;		DATE:		
APPROVED BY:					

GROUP NO.: \_\_\_\_\_;

# DATA SHEET H-14 HYDRAULIC BRAKE HOSE TRACER CORD COLOR IDENTIFICATION TEST

TEST DATE: \_\_\_\_\_

SPECIMEN NO.	CORD COLOR	R.M.A. IDENTIFICATION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
SPARE		

RECORDED BY: \_\_\_\_\_\_; DATE: \_\_\_\_\_\_

APPROVED BY:

# **SUMMARY OF AIR BRAKE HOSE TESTING RESULTS**

GROUP NO.:; NOMINAL HOSE I.D.:	_ inches
VEHICLE MFR:; PART NO.:	
HOSE ASSY MFR:; PART NO.:	
HOSE STOCK MFR:	
TYPE OF HOSE ASSYS.:Veh. Specific*;Aftermarket  * These types of assys are NOT subject to Label Inspection PASS/FAIL	criteria.
TYPE OF END FITTING:Permanent;Reusable;Renewable	
OUMMARY, (D - DAGGER, E - FAUER, N/A - NOT ARRUGARUE)	

SUMMARY: (P = PASSED, F = FAILED, N/A = NOT APPLICABLE)

		HOSE NUMBER												
TES	TNAME	1	2	3	4	5	6	7	8	9	10		•	15
01	Label Inspection													
02	Constriction Test													
03	High Temperature Test													
04	Cold Box Test													
05	Oil Resistance Test													
06	Ozone Test													
07	Length Change Test													
08	Adhesion (Not Reinforced) Test													
09	Flex & Air Pressure Test													
10	Corrosion & Burst Test													
11	Tensile Test													
12	Water Absorption													
13	Zinc Chloride Test													
14	Salt Spray Test													
15	Adhesion (Reinforced) Test													
		1	2	3	4	5	6	7	8	9	10	•	•	15

RECORDED BY: _	;	DATE:	
APPROVED BY:			

# **DATA SHEET A-1A**

# **AIR BRAKE HOSE LABELING INSPECTION - HOSE**

GROUP NO.:	_; TEST DATE:					
TYPE ASSY:Veh Specific*;Aftermarket  * These types of assys are NOT subject to Label Inspection PASS/FAIL criteria.						
MARKINGS ON HOS	SE: DOT Line-					
	Other Line-					
HOSE NUMBER	DATE CODE ON HOSE					
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
15						
SPARE						
REMARKS:	<u></u>					
RECORDED BY:	; DATE:					
APPROVED BY:						

# **DATA SHEET A-1B**

# **AIR BRAKE HOSE LABELING INSPECTION - ASSEMBLY**

GROUP NO.:	; AFTERMAF	RKET ASSY:Yes/No; TEST	DATE:
MARKINGS O (Metal band ur	N BAND: nless otherwise noted)		
	TION SELECTED:ata Sheet A-1C for PASS		
HOSE NO.	DOT MARK	MANUFACTURER'S MARK	PASS, FAIL or N/A
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
REMARKS:			
RECORDED BY:	;	DATE:	
APPROVED BY:			

# **DATA SHEET A-1C**

# **AIR BRAKE HOSE LABELING INSPECTION - END FITTINGS**

GROUP N	1O.:;	TEST DATE:			
TYPE OF * N	END FITTINGS: OT subject to Label In	Permanent*;Reusable;Renewable nspection PASS/FAIL criteria.			
MARKINGS ON END FITTINGS: (Each hose assy end must be marked with an "A" or "B" by the lab)					
HOSE#	"A" END	"B" END	P,F,N*		
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
SPARE					
•	P = PASS, F = FAIL,	N = NOT APPLICABLE			
REMARKS:					
RECORDE	D BY:	; DATE:			
APPROVED	) BY:				

# **DATA SHEET A-2**

# AIR BRAKE HOSE CONSTRICTION TEST

OSE NO.	END	PASS	FAIL	MAX. DRILL SIZE
	A B			
	A B			
	A B		_	
	A B			
	A B			_
	A B			
0	A B			
1	A B			
2	A B			
3	A B			
4	A B			
5	A B			
PARE	A B		_	

# **DATA SHEET A-3**

# AIR BRAKE HOSE HIGH TEMPERATURE TEST

GROUP NO.: _	; HOSE	NOMINAL I.D.:		inches
		TIME	DATE	
START OF HI	GH TEMPERATURE			
	H TEMPERATURE			
TOTAL TEST	TIME (hours) =			
	cured around a cylinder wi urs at 212°F. After remova			
TEST RESULT	S:		PASS	FAIL
External Inspec	etion			
Internal Inspect	ion			
	HOSE NOMINAL I.D. (mm	n) TEST CY	LINDER DIAME	ETER (mm)
	3/16" (4,5)		1" (25)	
	1/4" (6)		1½" (38)	
	5/16" (8)		1¾" (45)	
	3/8" (-)		1¾" (45)	
	13/32" (10)		1 1/8" (48)	
	7/16", 1/2" (12)		2" (51)	
	5/8"		2½" (64)	
REMARKS:				
RECORDED BY:	;	DATE:		
APPROVED BY: _		<del></del>		

# **DATA SHEET A-4**

LOW TEMPERATURE RESISTANCE TEST							
GROUP NO.	:;	HOSE N	OMINAL I.D.:		inches		
The hose assembly was conditioned in the cold box in a straight position or natural position at - $40^{\circ}\text{F}$ for 70 hours.							
	After the conditioning period and while still at this temperature, the hose assembly was bent around a test cylinder.						
All cracks an	d breaks are n	oted below.					
HOSE #2	DATE	TIME	BOX TEMPERATURE (°F)	EVIDENCE OF OR BREA			
IN BOX							
OUT BOX							
_	XPOSURE ME =						
TEST RESU							
				PASS	FAIL		
Test cylinder	diameter used	I = inche	es		<u> </u>		
	HOSE NO	MINAL I.D. (mm)	TEST C	YLINDER DIAMETER	(mm)		
	3/	/16" (4,5)		1" (25)			
		1/4" (6)		1½" (38)			
	Ę	5/16" (8)		1¾" (45)			
		3/8" (-)		1¾" (45)			
13/32" (10)				1 ½" (48)			
7/16", 1/2" (12)							
5/8" 2½" (64)							
RECORDED B	Y:	;	DATE:				
APPROVED BY	<b>/</b> :						

# DATA SHEET A-5 AIR BRAKE HOSE OIL RESISTANCE TEST

GROUP NO.:			
Specimens were prepared Paragraph 12.B.5 and weig			
Each specimen was immers cooled for 30 to 60 minutes and in distilled water (W <sub>4</sub> ) w	. Specimens were	each weighed in a tared	d weighing bottle (W <sub>3</sub> )
The percent increase in vol	ume was calculated	l as follows:	
Percent of Increase = $\frac{(W_3 - C_3)^2}{C_3}$	$\frac{W_4) - (W_1 - W_2)}{(W_1 - W_2)} \times 1$	ω	
	DATE	TIME	TEMPERATURE (°F)
OVEN TEST START			
OVEN TEST END			
CC	OOL PERIOD END		
		1	
	HOSE #3	HOSE #4	HOSE #5
Wt. in air (W₁) mg			
Wt. in water (W <sub>2</sub> ) mg			
Wt. in bottle (W <sub>3</sub> ) mg			
Wt. in water (W <sub>4</sub> ) mg			
Percent Increase			
PASS			
FAIL			
The average percent increase RECORDED BY:APPROVED BY:	;		-

# **DATA SHEET A-6**

AIR BRAKE HOS	SE OZONE TEST - 70 HC	DURS	
GROUP NO.:; AMBIENT TE	MPERATURE:	_ °F	
HOSE NO.: 6; HOSE NOMIN	NAL O.D.: in	ches	
CYLINDER DIAMETER = 8 x HOSE NO	MINAL O.D. = inc	ches	
	TIME	DAT	E
START OF TEST			
END OF TEST			
TOTAL EXPOSURE TIME (hours) =			
The brake hose was bound around a cyli at room temperature for 24 hours.	nder with a diameter of _	inches and	conditioned
The brake hose and cylinder were then e 100 million by volume for 70 hours at a te		entration of 100	parts per
Examination of the hose under 7 power r	magnification yielded the	following results	-
TEST RESULTS:			
		PASS	FAIL
REMARKS:			
RECORDED BY:;	DATE:		
ADDDOVED DV:			

# **DATA SHEET A-7**

# AIR BRAKE HOSE LENGTH CHANGE TEST

GROUP NO.:;	; AMBIENT TEMPERATURE:				
TEST DATE:;	HOSE NOMI	in	ches		
The hose was positioned in a free length measured. Pressu					
	@ 10 psig	@ 200 psig	PASS	FAIL	
Hose Free Length (in.)					
The Free Length Change = REMARKS:	%. (-7%)				
RECORDED BY:					

# **DATA SHEET A-8**

# AIR BRAKE HOSE ADHESION TEST

GROUP NO.:;	AMBIENT TEMP	PERATURE:		_ °F
TEST DATE:;	SAMPLE LENG	ТН:	ind	ches
Hose #8 was prepared in accordance Adhesion Test Device. The movi recording of Tension vs. Displace	ing head travel was 1.0 i			
Minimum Force Recorded (lbs.)	Adhesion Value (lbs./in.)	Minimum Allowable (lbs./in.)	PASS	FAI
		8		
Record data for all layers.				
REMARKS:				
RECORDED BY:	; DATE:			
APPROVED BY:				

# **DATA SHEET A-9**

#### AIR BRAKE HOSE FLEX STRENGTH AND AIR PRESSURE TEST

GROUP N	NO.:	,	AM	BIENT 7	ГЕМРЕ	RATUF	RE:	°F	•
TEST DA	TE: ;		НО	SE NO.:	:9	<u>)</u>			
The hose	assembly was ma	arked al	ong the c	enterline	€.				
HOSE FR	REE LENGTH.:								
testing me	assembly was su ethod of Salt Spra erature in the salt	y (Fog)	Testing A	ASTM B	117-03.				
HOSE #			<u>ы, ан эц</u>			.UTION	EVII	DENCE O	F RUST
				Sp.G	r.@95±	:2°F	P h		
IN Cabi	net								
OUT Cabin									
DATE/TIM	ME START EXPOS ME START FLEX was pressurized t	TEST T	O 212F		nute ho	old, the t			
Initial	Pressure (psig)	Fina	ıl Pressu	ıre (psig		During	e Decay   5 Min. (psig)	PASS	FAIL
Free Hose					Dime	ensions			
Length	Nominal Hose		Positio					on "2"	(1)
10.00	Inside Diameter	3.00	2.75	3.75	R <sup>(1)</sup> 1.40	3.00	2.75	3.75	R <sup>(1)</sup> 1.20
(254)	3/16, 1/4	(76)	(70)	(95)	(34)	(76)	(70)	(95)	(30)
11.00	5/16, 3/8, 13/32	3.00	3.50	4.50	1.70	3.00	3.50	4.50	1.30
(279) 14.00	7/16 1/ 5/9	(76) 3.00	(89) 4.00	(114) 5.00	(43)	(76)	(89) 4.00	5.00	(33) 1.80
(355)	7/16, ½, 5/8	(76)	(102)	(127)	(56)	(76)	(102)	(102)	(46)
REMARKS:									
RECORDE	D BY:		_;	DATE	:				

GROUP NO.: \_\_\_\_\_;

# **DATA SHEET A-10**

# AIR BRAKE CORROSION RESISTANCE AND BURST STRENGTH TEST

TEST DATE:

			Salt Spray test for 24 hong ASTM B117-03.	urs in	accorda	nce with the
The temperatur	re in the salt ch	amber, air	supply (psig), and were	contir	nuously	recorded.
(Note all interruption	ons in test, cause,	and length o	of time)			
HOSE #14	DATE	TIME	SALT SOLUTION PROP.	N	EVIDENCE OF R	
			Sp.Gr.@95±2°F	P h		
IN Cabinet						
OUT Cabinet						
After all air was rate of 1,000 ps		ntil the spe	ne relief valve was close cimen bursts.	ed and	pressui	re applied at the
HOSE NUMBER	PRESS ATTAINE		ALLOWABLE BURST STRENGTH	PA	ASS	FAIL
10			900 psig			
REMARKS:						
RECORDED BY:		;	DATE:			
APPROVED BY: _			-			

#### **DATA SHEET A-11**

#### AIR BRAKE HOSE TENSILE TEST

GROUP NO.:;		TEST DATE:	
HOSE SIZE:	inches	AMBIENT TEMP.:	_ °F
VEHICLE APPLICATION:			_
(Relative motion unless	otherwise	e noted)	

The hose assembly was mounted in the tensile machine so that the hose and end fittings had a straight centerline corresponding to the direction of the machine pull.

The hose assembly was pulled at a rate of 1 inch per minute until failing as follows:

- A. Hose pulled out of the end fitting
- B. Hose ruptured

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE	MIN. ALLOWABLE TENSILE STRENGTH	PASS	FAIL
11					

Vehicle Application	ALLOWABLE TENSILE STRENGTH					
	I.D. ≤ 1⁄4 "	I.D.> ¼ "	½" <i.d. th="" ½"<="" ≤=""><th>I.D.&lt;½"</th></i.d.>	I.D.<½"		
Between frame and axle	250 lbs	325 lbs	-	-		
Other	50 lbs	-	150 lbs	325 lbs		

**REMARKS**:

RECORDED BY:	 ;	DATE:	
APPROVED BY			

# **DATA SHEET A-12**

# AIR BRAKE HOSE WATER ABSORPTION - TENSILE TEST

GROUP	NO.:;	А	MBIE	NT TEMP	ERATUR	E:	°F	
HOSE F	REE LENGTH: ii	nches; H	IOSE	NOMINAL	_ I.D.:	ir	nches	
				TIME		С	ATE	
S	TART OF IMMERSION 1	ГІМЕ						
E	END OF IMMERSION TI	ME						
тот	AL IMMERSION TIME (h	iours) =						
Within 3	e was prepared and imm 0 minutes after removal nce with TP Paragraph 1	from the v						
HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)		TYPE OF ALLO		ALLO TEN	IN. WABLE ISILE INGTH	PASS	FAIL
12								
F	AILURE TYPES: A = H B = H	lose pulle lose ruptu		of end fitti	ng			
	Vehicle Application			LLOWABLE	TENSILE	STRENGTH		
	,,,	I.D. ≤ 1⁄4	•	I.D.> 1/4 "				
	Between frame and axle	250 lbs	5	325 lbs	3	-	-	
REMARK	S:							
RECORDED BY:;				DATE:				
APPROV	ED BY:	<del> </del>						

# **DATA SHEET A-13**

# AIR BRAKE HOSE ZINC CHLORIDE RESISTANCE TEST

AIR BRAKE HUSE ZII	NC CHLORIDE RESISTA	NCE IESI	
GROUP NO.:;	AMBIENT TEMPERATUR	RE:	°F
	TIME	DATI	<b>E</b>
START OF IMMERSION TIME			
END OF IMMERSION TIME			
TOTAL IMMERSION TIME (hours) =			
Hose #13 shall be immersed in a 50 pero temperature for 200 hours. After that tim examined under 7-power magnification. TEST RESULTS:	ne, the hose was removed	from the solution	n and
TEOT REGUETO.		PASS	FAIL
REMARKS:			
RECORDED BY:;	DATE:		
APPROVED BY:			

#### **DATA SHEET A-14**

#### AIR BRAKE HOSE SALT SPRAY TEST - 24 HOURS

#### **GROUP NO.:**

The hose assembly was subjected to a Salt Spray test for 24 hours in accordance with the testing method of Salt Spray (Fog) Testing ASTM B117-03.

The temperature in the salt chamber, air supply (psig), and were continuously recorded.

HOSE #14	DATE	TIME	SALT SOLUTION PROP.		EVIDENCE OF RUST OR CORROSION
			Sp.Gr.@95±2°F	P h	
IN Cabinet					
OUT Cabinet					

TEST	r Res	SUL	₋TS:

PASS	FAIL

REMARKS: (Note all interruptions in test, cause, and length of time)

RECORDED BY:	;	DATE:
APPROVED BY:		

# **DATA SHEET A-15**

# AIR BRAKE HOSE ADHESION TEST (REINFORCED BY WIRE)

GROUP NO.:;	AMBIENT TEMPERATURE:	°F
TEST DATE:;	BRAKE HOSE ID:	inches
Plug one end of the brake hose. Place a nominal I.D. of the brake hose inside the	a steel ball with a diameter equal to 73% or hose.	of the
STEEL BALL ID:		
	o a source of vacuum and subject the hos uum, bend the hose around the test cylind e opposite direction.	
TEST CYLINDER ID:		
With the vacuum still applied return the hinside the hose from one end to the other	nose to a straight position and attempt to ler end using gravity.	roll the ball
PASS CRITERION: The ball should roll	from one each end of the brake hose to t	he other
REMARKS:		
RECORDED BY:;	DATE:	
ADDDOVED BV:		

GROUP NO.: \_\_\_\_\_;

#### **DATA SHEET A-16**

#### AIR BRAKE HOSE TRACER CORD COLOR IDENTIFICATION TEST

TEST DATE:

Sã	amples to determine the o	s, remove a portion of the hose color of the tracer cord woven in on some hose assemblies.	outer cover in all NONFAILING to the outer braid; tracer cord may
	SPECIMEN NO.	CORD COLOR	R.M.A. IDENTIFICATION
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		

**REMARKS**:

13

14

RECORDED BY:	;	DATE:
APPROVED BY:		

### **SUMMARY OF VACUUM BRAKE HOSE TESTING RESULTS**

GROUP NO.:; NOMINAL HOSE I.D.: _	inches
VEHICLE MFR:	; PART NO.:
HOSE ASSY MFR:	; PART NO.:
HOSE STOCK MFR.:	
TYPE OF HOSE ASSYS.:Veh. Specific*;Aftermarker * NOT subject to Label Inspection PASS/FAIL criteria.	t
TYPE OF END FITTING:Permanent;Reusa	ble;Renewable

# SUMMARY: (P = PASSED, F = FAILED, N/A = NOT APPLICABLE)

						HOSE	NUMB	ER			
TEST	NAME	1	2	3	4	5	6	7	8	9	10
01	Label Inspection										
02	Constriction Test										
03	High Temperature Test										
04	Cold Box Test										
05	Ozone Test										
06	Burst Test										
07	Vacuum Test										
08	Bend Test										
09	Swell Test										
10	Adhesion Test										
11	Deformation Test										
12	Salt Spray Test										
		1	2	3	4	5	6	7	8	9	10

REMARKS:			
RECORDED BY: APPROVED BY:	 ;	DATE: _	
_	 		

### **DATA SHEET V-1A**

### **VACUUM BRAKE HOSE LABELING INSPECTION - HOSE**

GROUP NO.:;	TEST DATE:
TYPE OF ASSY:Veh Specific*;Aftermarket  * Labeling NOT subject to PASS/FAIL criteria.	
MARKINGS ON HOSE: DOT Line- Other Line-	

HOSE NUMBER	DATE CODE ON HOSE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
SPARE	

RECORDED BY: \_\_\_\_\_\_; DATE: \_\_\_\_\_\_

REMARKS:

APPROVED BY:	

# **DATA SHEET V-1B**

VACUUM BRAKE HOSE LABELING INSPECTION - ASSEMBLY							
GROUP NO.:	;	TEST DATE:	_				
AFTERMARKE	AFTERMARKET ASSY:No						
MARKINGS O (Metal band ur	N BAND: nless otherwise noted)						
MARKING OP (If YES, see Da	TION SELECTED:Yata Sheet V-1C for PASS/	′es;No FAIL judgment)					
HOSE NO.	DOT MARK	MANUFACTURER'S MARK	PASS, FAIL or N/A				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
SPARE							
REMARKS:							

RECORDED BY:	_;	DATE:

APPROVED BY:		

# **DATA SHEET V-1C**

	VACUUM BRAKE HOSE	LABELING INSPECTION - END F	FITTINGS				
GROUP I	GROUP NO.: ; TEST DATE:						
	END FITTINGS:Perr IOT subject to Label Inspecti	nanent*;Reusable;Re on PASS/FAIL criteria.	enewable*				
MARKINGS ON END FITTINGS: (Each end of hose assembly must be marked with an "A" or "B" by the laboratory)							
HOSE #	"A" END	"B" END	P,F,N*				
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
SPAR E							
REMARKS	* P = PASS, F = FAIL, N/A	= NOT APPLICABLE					
RECORDE	D BY:;	DATE:					

APPROVED BY:				

### **DATA SHEET V-2**

# **VACUUM BRAKE HOSE CONSTRICTION TEST**

GROUP NO.:	;	TEST DATE:	
AMBIENT TEMP.:	_°F;HOSE NOMINAL I.D.: _		"
	" (NOTE: 5% nominal I.D. for heavy d		
Each end of the hose assen	nbly must be marked with an	"A" or "B" by the laboratory.	

The constriction of the bore was measured at both ends using the size gage plug indicated above.

HOSE NO.	END	PASS	FAIL	MAX. DRILL SIZE
1	A B			
2	A B			
3	A B			
4	A B			
5	A B			
6	A B			
7	A B			
8	A B			
9	A B			
10	A B			
Spare	A B			

REMARKS:

RECORDED BY:; APPROVED BY:;	DATE:		132
15. DATA SHEETSContinued			
DA	ATA SHEET V-3		
VACUUM BRAKE H	OSE HIGH TEMPERATU	RE TEST	
GROUP NO.:; HOSE	NOMINAL O.D.:	inc	ches
Hose was subjected to vacuum of 26 inc	ches of Hg.		
	TIME	DAT	E
START TEMPERATURE CONDITIONING END TEMPERATURE CONDITIONING			
TOTAL CONDITIONING TIME (hours) =			
HOSE O.D. (within 5 minutes of condition After keeping hose at ambient temperature)	ning to 257F:	inches	
with a diameter of inches. The ho			
Inspection			
Applied water pressure of 175 psi for on	ne minute.		
Inspection			
REMARKS:		PASS	FAIL
INLIVIATIO.			
RECORDED BY:;	DATE:		
APPROVED BY:			

#### **DATA SHEET V-4**

#### **VACUUM BRAKE LOW TEMPERATURE RESISTANCE TEST**

GROUP NO.: ; HOSE NOMINAL I.D.: inches									
The hose assembly and the large test cylinder was conditioned in the cold box in a straight position or natural position at -40°F for 70 hours.									
After the conditioning period and while still at this temperature, the hose assembly was bent around a wood mandrel of the diameter noted in the "REMARKS" section.									
All cracks an	d breaks are noted	below.							
HOSE #2	DATE	TIME	≣	BO TEMPEF E (°	RATUR	EV	IDENCE OR B	OF CF	- II
IN BOX				`		İ			
OUT BOX									
TOTAL EX	(POSURE TIME =					,			
TEST RESU	LTS:								
							PASS	S	FAIL
Wood Mandrel diameter used = inches  Table IV B Air Brake Hose Diameters and Test Cylinder Radii									
Nominal h	ose inside diameter,	3/16	1/4	5/16	3/8	13/32	7/16, 1/2	5/8	

#### Notes:

Nominal hose inside diameter,

Small test cylinder, radius in

Large test cylinder, radius in

inches (millimeters) (2)

inches (millimeters) (3)

millimeters<sup>(1)</sup>

8

1 3/4

(45)

3

(76)

1 3/4

(45)

3 1/2

(89)

12

2

(51)

4

(102)

16

2 1/2

(64)

4 1/2

(114)

10

1 7/8

(48)

3 1/2

(89)

(2) Small test cylinders are used for the high temperature resistance test.

4, 5

1

(25)

2

(51)

6

1 1/2

(38)

2 1/2

(64)

<sup>(1)</sup> These sizes are listed to provide test cylinder radii for brake hoses manufactured in these sizes. They do not represent conversions.

(3) Large test cylinders are used for the low temp reinforced hose tests.	perature resistance, ozone resis	stance, and adhesio	n of wire-
RECORDED BY:; APPROVED BY:;  15. DATA SHEETSContinued	DATE:		
	ATA SHEET V-5		
VACUUM BRAKE H	HOSE OZONE TEST - 70	HOURS	
GROUP NO.:; AMBIENT TE	MPERATURE:	_ °F	
HOSE NO.: 3 ; HOSE	NOMINAL O.D.:	inches	
CYLINDER DIAMETER = 8 x HOSE NO	MINAL O.D. = inc	hes	
	TIME	DATE	<b>=</b>
START OF TEST			
END OF TEST			
TOTAL EXPOSURE TIME (hours) =			
The brake hose was bound around a cyli at room temperature for 24 hours.	inder with a diameter of _	inches and	conditioned
The brake hose and cylinder were then emillion by volume for 70 hours at a temperature		entration of 50 p	arts per 100
Examination of the hose under 7-power r	magnification yielded the f	following results	-
TEST RESULTS:			
		PASS	FAIL
REMARKS:			
RECORDED BY:;	DATE:		

	_					
	VACUUM BRAKE	HOSE BURST STRENG	GTH TEST			
GROUP NO.: ; TEST DATE:						
MBIENT TEMPE	RATURE:	°F.				
he hose was con	nected to the pressur	e source and completely	filled with wa	ter.		
		the relief valve was close the specimen burst or re				
HOSE NUMBER	ACTUAL PRESSURE ATTAINED, psig	MINIMUM ALLOWABLE BURST STRENGTH	PASS	FAIL		
4		350 psig				
		; DATE:				

### **DATA SHEET V-7**

# **VACUUM BRAKE HOSE VACUUM TEST**

GROUP NO	.:;		TEST DA	NTE:		
AMBIENT T	EMPERATURE: _	°F.				
internal vacu	uum of 25 to 26 inc	of Hose #5 was meas thes of mercury for 5 m. The O.D. shall no	minutes and	I the O.D. re-m	easured	
Vacuum = _	inches	of Hg.				
	PRETEST O.D. (in.)	AT VACUUM O.D. (in.)	CHANGE (in.)	ALLOWABLE (in.)	PASS	FAIL
Hose #5						
REMARKS:						
RECORDE	) BY:	;	DATE: _			
APPROVED	BY:					

# **DATA SHEET V-8**

# **VACUUM BRAKE HOSE BEND TEST**

GROUP NO	.:;		TEST DAT	ΓE:		
AMBIENT T	EMP.: °F.	NOM	MINAL HOSE	: ID:	inches	
touched. Th	s cut to the length be ne hose Outside Diar fferences in diamete	meter (O.D.) was m	easured befo	re and after b		
Hose Length	n = inch	nes				
	O.D. PRIOR TO BEND (in.)	O.D. AT BEND (in.)	CHANGE (in.)	ALLOWABL E (in.)	PASS	FAIL
Hose #6						
REMARKS:						
RECORDED	) BY:	;	DATE:			
APPROVED	) BY:		_			

### **DATA SHEET V-9**

### **VACUUM BRAKE HOSE SWELL TEST**

GROUP NO.:;			AMBIENT TEN	°F				
HOSE TYPE:VL;VH; HOSE NOMINAL I.D.: inches								
Hose #7 was cut into a 12-inch length and filled with Reference Fuel A in accordance with ASTM D471-64. The hose was maintained at ambient temperature and pressurized for 48 hours.								
			TIME		DATI	E		
START OF	TEST							
END OF T	EST							
TOTAL TEST TIN	IE (hours) =							
The <b>CONSTRICTION TEST</b> was performed in accordance with TP Paragraph 12.C.6.								
HOSE NO.	HOSE END		PASS		FAIL			
7	А							
	В							
The <b>VACUUM TEST</b> w	as performed in a	ccorda	ance with TP Pa	aragraph	12.C.8.			
Vacuum = inches of mercury (Hg)								
TEST RESULTS:								
					PASS	FAIL		
RECORDED BY:		;	DATE:					

APPROVED BY: _	

DATA SHEET V-10					
VACUU	JM BRAKE HOSE ADHE	SION TEST			
GROUP NO.: ;	AMBIENT TEMP	ERATURE:		°F	
TEST DATE:;	SAMPLE LENGT	H:	inche	es:	
Hose #8 was prepared in accordance Adhesion Test Device. The movof tension vs. displacement.					
Minimum Force Recorded (lbs.)	Adhesion Value (lbs./in.)	Minimum Allowable (lbs./in.)	PASS	FAIL	
		8			
(lbs.) (lbs./in.) (lbs./in.) PASS FAIL					

RECORDED BY: \_\_\_\_\_\_ ; DATE: \_\_\_\_\_\_

APPROVED BY	• •
-------------	--------

	DATE	VOILET V II
	VACUUM BRAKE H	IOSE DEFORMATION TEST
GROUP I	NO.:; AN	MBIENT TEMPERATURE:°F
TEST DA	.TE:; HC	OSE NOMINAL I.D.: inches
HOSE TY	'PE:VL;VH	
line of the compress seconds t	e applied force and a gradually inc s its Inside Diameter (I.D.) to the d	e compression device with the fabric laps not in the reasing force was applied to the test specimen to imension "D" for the size of the hose tested. After 5 ak load recorded. The procedure was repeated 4 od between load applications.
	FORCE APPLICATION	FORCE (lbs.)
1	less than 70 lbs for HD hose	
	less than 50 lbs for LD hose	
2		
3		
4		
5	more than 40 lbs for HD hose	
	more than 20 lbs for LD hose	
•	ginal O.D. = inches	Compression Dimension (D) = inches (from Table 4 of Paragraph 12.C.11)
% of Orig	inal O.D. = % (Allowable =	90%; Wire Reinforced Allowable = 85%)
DEGGER	PASS	
KECORDE	D BY:;	DATE:

APPROVED BY:			
--------------	--	--	--

VACUUM BRAKE HOSE SALT SPRAY TEST - 24 HOURS						
GROUP NO.:						
The hose assemble testing method of			t Spray test for 24 ho ASTM B117-64.	ours in	accordance	with the
The temperature	in the salt ch	namber was c	ontinuously recorded	l.		
HOSE #14	DATE	TIME	SALT SOLUTIO PROP.	N	EVIDENCE OR COR	
			Sp.Gr.@95±2°F	Ph		
IN Cabinet						
OUT Cabinet						
TEST RESULTS	:			ĺ		
					PASS	FAIL
REMARKS: (Note	e all interrupt	ions in test, c	ause, and length of t	ime)		
RECORDED BY:			_; DATE:			

### **DATA SHEET V-13**

# **VACUUM BRAKE HOSE TRACER CORD COLOR IDENTIFICATION TEST**

GROUP NO.:;		TEST DATE:
	olor of the tracer cord wov	ose outer cover in all NONFAILING en into the outer braid; tracer cord may
SPECIMEN NO.	CORD COLOR	R.M.A. IDENTIFICATION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
REMARKS:		
RECORDED BY:	· ;	DATE:
APPROVED BY:		

### **DATA SHEET P-1A**

#### **AIR BRAKE TUBING LABELING INSPECTION - HOSE**

GROUP NO.:	_; TEST DATE:
TYPE ASSY:Verify * These types	eh Specific*;Aftermarket of assys are NOT subject to Label Inspection PASS/FAIL criteria.
MARKINGS ON TUB	ING: DOT Line-
	Other Line-
SAMPLE NUMBER	DATE CODE ON TUBING
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
23	
SPARE	
REMARKS:	
RECORDED BY:	; DATE:

APPROVED BY:	

	DATA GILLET 1-1D			
	AIR BRAKE TUBING I	_ABELING INSPECTION - ASSEM	BLY	
GROUP NO.: _	; AFTERMAF	RKET ASSY:Yes/No; TEST	DATE:	
	NI DANID.			
MARKINGS OI (Metal band un	N BAND: lless otherwise noted)			
		Vas. Na		
MARKING OPTION SELECTED:Yes;No (If YES, see Data Sheet A-1C for PASS/FAIL judgment)				
SAMPLE NO.	DOT MARK	MANUFACTURER'S MARK	PASS, FAIL or N/A	

SAMPLE NO.	DOT MARK	MANUFACTURER'S MARK	PASS, FAIL or N/A
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
23			

REMARKS:			
RECORDED BY: _	;	DATE: _	

ROVED BY:

GROUP NO.: \_\_\_\_\_;

#### **DATA SHEET P-1C**

#### AIR BRAKE TUBING LABELING INSPECTION - END FITTINGS

TEST DATE: \_\_\_\_\_

TYPE OF END FITTINGS:Permanent*;Reusable  * NOT subject to Label Inspection PASS/FAIL criteria.						
	MARKINGS ON END FITTINGS: (Each tubing assy end must be marked with an "A" or "B" by the lab)					
SAMPLE#	"A" END	"B" END	P,F,N*			
1						
2						
3						
4						
5						
6						

• P = PASS, F = FAIL, N = NOT APPLICABLE

REMARKS:

SPARE

7

8

9

10

11

23

RECORDED BY:	;	DATE:	
APPROVED BY:			

#### **DATA SHEET P-2**

# AIR BRAKE TUBING CONSTRICTION TEST

TEST DATE: _	; TUBIN	G O.D.:	_"	
AMB.TEMP.: _	°F; PLUG SIZE USED*: * See TP Paragraph 12.B.2 for	" (NOTE: proper plug size	" Max Dia. for	" ID hose)

Each end of the tubing assembly must be marked with an "A" or "B" by the lab. The constriction of the bore was measured at both ends using the size gage plug as shown above.

SAMPLE NO.	END	PASS	FAIL	MAX. DRILL SIZE
1	A B			
2	A B			
3	A B			
4	A B			
5	A B			
6	A B			
7	A B			
8	A B			
9	A B			
10	A B			
11	A B			
	A B			
	A B			
23	A B			
SPARE	A B			

**REMARKS**:

RECORDED BY:;	DATE:	
APPROVED BY:		
15. DATA SHEETSContinued		
DAT	TA SHEET P-3	
AIR BRAKE TUBING HIGH TEMPERATUSTABILITY TEST	JRE CONDITIONING AN	D DIMENSIONAL
GROUP NO.: A	MBIENT TEMPERATURI	E:°F
TUBING O.D (OD) inches		
TUBING INSIDE DIAMETER (ID)	_ inches	
TUBING THICKNESS inches		
Conditioned the tubing at 230 F for 4 hours	S.	
230 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
Allowed to cool at room temperature for 30	) minutes and measured t	the dimensions.
TUBING O.D (OD) inches		
TUBING INSIDE DIAMETER (ID)	_ inches	
TUBING THICKNESS inches		
REMARKS:		
RECORDED BY:APPROVED BY:	_ ; DATE:	

AIR BRAKE TUBING BOILING WATER CO TEST	NDITIONING AND DI	MENSIONAL STABILIT
GROUP NO.: AME	BIENT TEMPERATUR	E:°F
TUBING O.D (OD) inches		
TUBING INSIDE DIAMETER (ID) in	ches	
TUBING THICKNESS inches		
Conditioned the tubing in water at 212 F for 2	hours.	
WATER @ 212 F T	ME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
Allowed to cool at room temperature for 30 m	inutes and measured	the dimensions.
TUBING O.D (OD) inches		
TUBING INSIDE DIAMETER (ID) in	ches	
TUBING THICKNESS inches		
REMARKS:		
RECORDED BY:; APPROVED BY:;	DATE:	

# **DATA SHEET P-5**

# AIR BRAKE TUBING BURST STRENGTH TEST

GROUP NO.:	; HOSE TYPE:	_; TEST DATI	E:	_	
AMBIENT TEMPERATURE: °F					
	ACTUAL PRESSURE			1	
	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL		
REMARKS:					
DECODDED DV:		D.4-	TC.		
RECORDED BY:		DA	I C		
APPROVED BY:					

	DA	IA SHEET P-0				
AIR BRAKE TUBING MOISTURE ABSORPTION AND BURST TEST						
GROUP NO.:		AMBIENT TEMPERA	TURE:	°F		
TUBING O.D (OD) inches						
Conditioned the tub	ing at 230 F for 24 ho	urs.				
2	230 F	TIME	DATE			
START OF EXPO	OSURE					
END OF EXPOSE	URE					
INTIAL WEIGHT: Placed the sample i hours.	grams n an environmental ch	namber at 75 F and 1	00% relative h	umidity for 100		
	75 F	TIME	DATE			
START OF EXPO	SURE					
END OF EXPOS	URE					
CONDITIONED WE	er conditioning weigh EIGHT: grange of moisture absorp	ms				
Moisture Absorption	n = 100(Conditioned V	Veight – Initial Weight	)/Initial Weight	:=%		
Installed the end fitt	ings and conducted th	ne burst test.				
	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL		

	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL
80% Burst Pressure				

:					
RECORDED BY:APPROVED BY: 15. DATA SHEETSContinued	; DATE:				
DA	TA SHEET P-7				
AIR BRAKE TUBING ULTRAVIOLET LIC	GHT RESISTANCE TI	EST			
GROUP NO.:	AMBIENT TEMPERAT	URE:	°F		
TUBING O.D (OD) inches					
The sample was exposed to an irradiance level of 0.85 watts per square meter at 340 nm for 300 hours, while keeping the temperature in the chamber at 113 F at ambient humidity.					
113 F TIME DATE					
START OF EXPOSURE	START OF EXPOSURE				
END OF EXPOSURE					
The sample was placed inside the impact test apparatus and drop the impacter into the tubing from a height of 12 inches.  Installed the end fittings and conducted the burst test.					
REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL		
80% Burst Pressure					
:					
RECORDED BY:	; DATE:				

_	AIR BRAKE TUBING LOW TEMPERATURE FLEXIBILITY TEST					
G	GROUP NO.:°F					
Т	UBING O.D (OD) inches					
C	Conditioned the tubing at 230 F for 24 hou	irs.				
	230 F	TIME		DATE		
	START OF EXPOSURE					
	END OF EXPOSURE					
	Allowed to cool at ambient for 30 minutes.  Placed the sample and the cylinder in an environmental chamber at -40 F for 4 hours.					
	-40 F	TIME		DATE		
	-40 F START OF EXPOSURE	TIME		DATE		
		TIME		DATE		
В	START OF EXPOSURE			DATE		
В	START OF EXPOSURE END OF EXPOSURE			DATE	FAIL	
В	START OF EXPOSURE END OF EXPOSURE				FAIL	
	START OF EXPOSURE END OF EXPOSURE				FAIL	

AIR BRAKE TUBING HIGH TEMPERATURE FLEXIBILITY TEST						
GROUP NO.:	GROUP NO.:°F					
TUBING O.D (OD) _	inches					
CYLINDER RADIUS	S inches					
Bent the sample 180	O degrees around the	cylinder and held it ir	n place.			
Conditioned the tubi	ing and the cylinder in	an oven at 230 F for	72 hours.			
230 F TIME DATE						
START OF EXPO	SURE					
END OF EXPOSURE						
Allowed to cool at a	mbient for 30 minutes	i.				
Removed the clamp	s and straighten the t	ubing.				
Rebent the sample	180 degrees around t	he cylinder (same poi	int but opposit	e direction).		
Conducted the burst	t test.					
	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL		
80% Burst Pressure						
:						
:						
RECORDED BY:		; DATE: _				

ΑI	R BRAKE TUBIN	G HIGH TEMPERAT	URE RESISTANCE 1	EST	
GF	ROUP NO.:		AMBIENT TEMPERA	TURE:	°F
TL	JBING O.D (OD)	inches			
Сс	onditioned the tubi	ng at 230 F for 72 ho	ours.		
	2	30 F	TIME	DATE	
	START OF EXPO	SURE			
	END OF EXPOS	JRE			
All	owed to cool at ro	REQUIREMENT FROM TABLE	ACTUAL PRESSURE ATTAINED, psig	cted the burs	st test.
	2004 B	BELOW	, , , , , , , , , , , , , , , , , , ,		
	80% Burst Pressure				
RE	EMARKS:				
	ECORDED BY: PPROVED BY:		; DATE: _		

#### **DATA SHEET P-11**

# AIR BRAKE TUBING HIGH TEMPERATURE CONDITIONING, LOW TEMPERATURE IMPACT RESISTANCE TEST

GROUP NO.:; AMBIENT TEMPERATURE:°F			
TUBING O.D.: inches FREE LENGTH:inches			
230 F	TIME	DATE	
START OF EXPOSURE			
END OF EXPOSURE			

Conditioned the tubing in an air oven at 230 F for 72 hours.

-40 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		

Conditioned the tubing and the impact test at apparatus in an environmental chamber at –40 F for 4 hours.

After dropping the impacter remove the tubing from the chamber and allow to warm for 1 hour at ambient temperature.

AMBIENT TEMPERATURE	ТІМЕ	DATE
START OF EXPOSURE		
END OF EXPOSURE		

Plot Pressure (psig) vs. time (minutes)

	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL
80% Burst Pressure				

**REMARKS:** 

RECORDED BY: _		DATE:	
APPROVED BY:			

AIR BRAKE TUBING BOILING WATER CONDITIONING,	LOW TEMPERATURE IMPACT
RESISTANCE TEST	

REGIOTATIOE TEO	•			
GROUP NO.:	;	AMBIENT TEMPERA	TURE:	°F
TUBING O.D.:	_ inches	FREE LENGTH:	_inches	
WATE	R @ 212 F	TIME	DATE	
START OF EXPO	SURE			
END OF EXPOS	URE			
Condition the tubing for 4 hours.	and the impact test	at apparatus in an env	/ironmental ch	amber at –40 F
-	40 F	TIME	DATE	
START OF EXPO	SURE			
END OF EXPOS	URE			
AMBIENT T	EMPERATURE	TIME	DATE	
START OF EXPO	) SURE			
END OF EXPOS	URE			
Plot Pressure (psig) vs.	time (minutes)		<u> </u>	
	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL
80% Burst Pressure				
REMARKS:				
RECORDED BY: APPROVED BY:		; DATE: _		

# **DATA SHEET P-13**

# AIR BRAKE TUBING ZINC CHLORIDE RESISTANCE TEST

GROUP NO.:	AMBIENT TEMPERATUR	RE:	°F	=
TUBING NOMINAL O.D inches				
	TIME		DATE	
START OF IMMERSION TIME				
END OF IMMERSION TIME				
TOTAL IMMERSION TIME (hours) =				
The brake hose was bound around a cylinadius in Table VIII of S106.	nder having radius equal	to t	he unsupport	ed bend
CYLINDER RADIUS inches				
The tubing and cylinder were then expos room temperature for 200 hours.	ed to a 50 percent zinc ch	nlori	ide aqueous s	solution at
The hose was removed from the solution	and examined under 7-p	OW	er magnificati	on.
Examination of the hose under 7-power r	magnification yielded the t	follo	wing results	-
TEST RESULTS:		r=		
			PASS	FAIL
REMARKS:				
RECORDED BY:	; DATE:			

# **DATA SHEET P-14**

# AIR BRAKE TUBING METHYL ALCOHOL RESISTANCE TEST

GROUP NO.:; AMBIENT TE	MPERATURE:	_ °F	
HOSE NO.:; TUBING NON	//INAL O.D.:	inches	
CYLINDER RADIUS: inches			
	TIME	DATE	<b>≡</b>
START OF EXPOSURE			
END OF EXPOSURE			
TOTAL EXPOSURE TIME (hours) =			
The tubing and cylinder were then expose Examination of the hose under 7 power rough TEST RESULTS:			alcohol.
		PASS	FAIL
REMARKS:			
RECORDED BY:;	DATE:		
APPROVED BY:			

# **DATA SHEET P-15**

# AIR BRAKE TUBING HIGH TEMPERATURE CONDITIONING AND COLLAPSE RESISTANCE TEST

GROUP NO.:°F		
TUBING O.D (OD)  UNSUPORTED BEND RADIUS (UBR)  DISTANCE BETWEEN PINS (DP)  TUBING LENGTH (TL)  Note: PC=2(BR)+OD TL= 3.14(BR) + 10(OD) + 2  After placing a permanent mark at the colliniary of		
Install the tubing over the pins of the holding device and condition the device with the tubing at 200 F for 24 hours.		
200 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
After exposure measure and record the final OD.		
FINAL OD inches		
Calculate Percent Collapse.		
%Collapse = 100(Initial OD – Final OD)/Initial OD		
%Collapse:		
REMARKS:		
RECORDED BY:APPROVED BY:	; DATE:	

# **DATA SHEET P-16**

# AIR BRAKE TUBING OZONE RESISTANCE TEST

GROUP NO.:; AN	IBIENT T	EMPERATURE: _		°F
HOSE NO.: <u>15</u> ;	HOSE N	IOMINAL O.D.:		inches
CYLINDER DIAMETER = 8 x HO	SE NOM	INAL O.D. =	_ inch	es
		TIME		DATE
START OF TEST				
END OF TEST				
TOTAL EXPOSURE TIME (ho	urs) =			
The brake hose was bound aroun at room temperature for 24 hours.		der with a diameter	of	inches and conditione
The brake hose and cylinder were 100 million by volume for 70 hours				ntration of 100 parts per
Examination of the hose under 7-	power ma	agnification yielded	the fo	llowing results -
TEST RESULTS:				
	PASS	FAIL		
REMARKS:				
RECORDED BY:	;	DATE:		
APPROVED BY:	· · · · · · · · · · · · · · · · · · ·			

# **DATA SHEET P-17**

#### AIR BRAKE TUBING OIL RESISTANCE TEST

GROUP NO.:	; HOSE TYPE:	; TEST DATE:				
AMBIENT TEMPER	ATURE:	°F				
The sample was imr	mersed in ASTM IRM	903 oil at 212 F for 7	0 hours.			
ASTM IRM 9	03 OIL @ 212 F	TIME	DATE			
START OF TEST						
END OF TEST						
TOTAL EXPOSURE TIME (hours) =						
The sample was removed and allowed to cool at ambient temperature for 30 minutes. The burst test was conducted.						
	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL		
80% Burst Pressure						
REMARKS:						
RECORDED BY:		DATE:				
APPROVED BY:						

#### **DATA SHEET P-18**

#### AIR BRAKE TUBING TENSILE TEST

GROUP NO;	TEST DATE:	; AMBIENT	TEMP.:	°F
-----------	------------	-----------	--------	----

The sample was mounted in the tensile machine so that the hose and end fittings had a straight centerline corresponding to the direction of the machine pull.

The sample was pulled at a rate of 1 inch/minute until failing as follows:

- A. Hose pulled out of the end fitting
- B. Hose ruptured

TABLE H6-1 - Slow Pull Test (1" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (lbs)	PASS	FAIL
9A			325		
10A			325		
11A			325		
12A			325		

TABLE H6-1 - Fast Pull Test (2" per minute)

HOSE NO.	ACTUAL TOTAL LOAD AT TIME OF FAILURE (lbs)	TYPE OF FAILURE "A" or "B"	MIN. ALLOW. TENSILE STRENGTH (lbs)	PASS	FAIL
9B			370		
10B			370		
11B			370		
12B			370		

REMARKS:			
RECORDED BY:		DATE:	
APPROVED BY:		_	<del></del>

#### **DATA SHEET P-19**

#### AIR BRAKE TUBING BOILING WATER CONDITIONING AND TENSILE TEST

GROUP NO.: \_\_\_\_\_; AMBIENT TEMPERATURE: \_\_\_\_\_°F

	WATER @ 212 F	TIME	DAT	E	
START	OF EXPOSURE				
END OF	EXPOSURE				
	ACTUAL LOAD (lbs)	REQUIRED LOAD	PASS	FAIL	
		OR			
	ACTUAL FREE LENGTH	REQUIRED FREE LENGTH			
		9"			

#### **DATA SHEET P-20**

#### AIR BRAKE TUBING THERMAL CONDITIONING AND TENSILE TEST

GROUP NO.:; A TUBING O.D.: inches	MBIENT TEMPERATUR	E:°F
-40 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
AMBIENT TEMPERATURE		
START OF EXPOSURE		
END OF EXPOSURE		
WATER @ 212 F		
START OF EXPOSURE		
END OF EXPOSURE		
AMBIENT TEMPERATURE		
START OF EXPOSURE		
END OF EXPOSURE		
The hose assemblies were mounted in the		

The hose assemblies were mounted in the tensile machine so that the hose and end fittings had a straight centerline corresponding to the direction of the machine pull. Record when either the required load or a free length of 9" is achieved.

Tensile Test (1" per minute)

ACTUAL LOAD (lbs)	L LOAD (Ibs) REQUIRED LOAD		FAIL		
	OR				
ACTUAL FREE LENGTH	REQUIRED FREE LENGTH				
	9"				

RECORDE	D BY:	. ,	DATE:		
<b>APPROVE</b>	D BY: _	 	_		

# DATA SHEET P-21 AIR BRAKE TUBING VIBRATION RESISTANCE TEST

GROUP NO.:; AMBIENT TEMPERATURE: _	°F					
FREE LENGTH:						
INITIAL TIGHTENING TORQUE:						
Plot: Up to 1,000,000 cycles Chamber Temperature vs. Cycles (up to 1,000,000 cycle Camber Temperature vs. Time (up to one hour after 1,0		3)				
For the last 100 cycles Flow rate (cm³/min) vs. cycles						
After 1,000,000 cycles						
Flow rate (cm <sup>3</sup> /min) vs. time Temperature vs. time						
One hour after reaching 1,000,000 cycles – 20% Initial Tightening Torque:						
TEST RESULTS:						
	PASS	FAIL				
REMARKS:						
RECORDED BY:; DATE:						
APPROVED BY:						

#### **DATA SHEET P-22**

#### AIR BRAKE TUBING END FITTING RETENTION TEST

GROUP NO.:	_; TEST DATE:	AMBIENT TE	EMPERATURI	E: °F
Plot Pressure (psig)	vs. time (minutes)			
	REQUIREMENT FROM TABLE BELOW	ACTUAL PRESSURE ATTAINED, psig	PASS	FAIL
50% Burst				
Pressure Burst Pressure				
REMARKS:				
RECORDED BY:		DATE:		

DA	ATA SHEET P-23	
AIR BRAKE TUBING THERMAL COM	NDITIONING AND END FI	TTING RETENTION TEST
GROUP NO.:;	AMBIENT TEMPERATUR	E:°F
TUBING O.D.: inches		
Fill the sample with ASTM IRM 903 oil, of Insert in an environmental chamber applichamber to 200 F. Condition the tubing	ly atmospheric pressure. S	
200 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
Increase the pressure at a rate of 3000 pthe pressure to atmospheric and condition hours.		
75 F	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
Condition the sample in the environment	tal chamber at -40 F for 24	hours.
AMBIENT TEMPERATURE	TIME	DATE
START OF EXPOSURE		
END OF EXPOSURE		
Increase the pressure at a rate of 3000 p Plot Pressure (psig) vs. time (minutes)	osi/min to 450 psi and hold	for 5 minutes.
Tiot resoure (poig) vo. time (minutes)		
REMARKS:		
RECORDED BY:	; DATE:	

#### **DATA SHEET P-24**

# AIR BRAKE TUBING END FITTING SERVICEABILITY TEST

GROUP NO.:; TEST DATE:	AMBIENT TEMPERA	ΓURE:	_°F
After assembly/disassembly sequence, pressuseconds.	rize the test item to 120	psig and hold	for 20
Plot Pressure (psig) vs. time (seconds)			
Flow rate (cm <sup>3</sup> /min) vs. time			
TEST RESULTS:			
Leakage Present: NO Yes	Leakage rate:	<del></del>	
		PASS	FAIL
REMARKS:			
RECORDED BY:	DATE:		_
APPROVED BY:			

#### **DATA SHEET P-25**

#### AIR BRAKE TUBING END FITTING CORROSION TEST

GROUP NO.: _						
The sample wa				ccord	ance with the testing	
The temperatu	re in the salt ch	amber and the	air supply (psig) w	ere co	ontinuously recorded.	
HOSE #14	DATE	TIME	SALT SOLUTION PROP.		EVIDENCE OF RUST OR CORROSION	
			Sp.Gr.@95±2°F	Ph		
IN Cabinet						
OUT Cabinet						
TEST RESULTS:  PASS FAIL  REMARKS: (Note all interruptions in test, cause, and length of time)						
RECORDED B	Y: Y:	;	; DATE:			

# 16. FORMS

# LABORATORY NOTICE OF TEST FAILURE TO OVSC

FMVSS 106 TEST DATE:	
LABORATORY:	
	; DELV. ORDER NO.:
LABORATORY PROJECT ENGINEER'	'S NAME:
TEST SPECIMEN DESCRIPTION	
MANUFACTURER:	
	H §:
NOTIFICATION TO NHTSA (COTR): _	
DATE: BY:	
REMARKS	

# 16. FORMS....Continued

# **MONTHLY INVENTORY STATUS REPORT**

#### **FMVSS 106**

#### **DATE OF REPORT:**

GROU P NO.	MANUFACTURER'S NAME	MODEL	NUMBER OF SPECIMENS RECEIVED	CONDITION OF SAMPLE	DATE RECEIVED
001					
002					
003					
004					
005					
006					
007					
008					
009					
010					
011					
012					
013					
014					
015					
016					
017					
018					
019					
020					

**REMARKS**:

# 16. FORMS....Continued

# **MONTHLY TEST STATUS REPORT**

#### **FMVSS 106**

#### **DATE OF REPORT:**

GROU P NO.	VEHICLE MANUFACTURER AND MODEL	TEST START DATE	TEST COMPLETE DATE	PASS / FAIL	DATE FINAL REPORT SUBMITTE D
001					
002					
003					
004					
005					
006					
007					
800					
009					
010					
011					
012					
013					
014					
015					
016					
017					
018					
019					
020					

**REMARKS**: